



Subject: DEF Tank Relocation
Models: Chevrolet Silverado 3500 HD
GMC Sierra 3500 HD
Chassis Cabs with single rear tank (N2L) only
and the diesel engine (L5P) option
Model Years: 2020 – beyond
Date: August 13, 2019
Revision Date January 26, 2021

ADVISORY:**Condition/Concern:**

Some customers/upfitters may need to relocate the Diesel Exhaust Fluid (DEF) tank to install a service body. The following are the recommended steps to perform the relocation procedure. This relocation procedure can only be performed on a 3500HD Chassis Cab model with a single rear fuel tank (N2L) only. Additionally, on vehicles with the rear only fuel tank, the relocation kit is included as a loose parts kit in the cab of the vehicle.

Repair/Recommendation:

Removal Procedure:

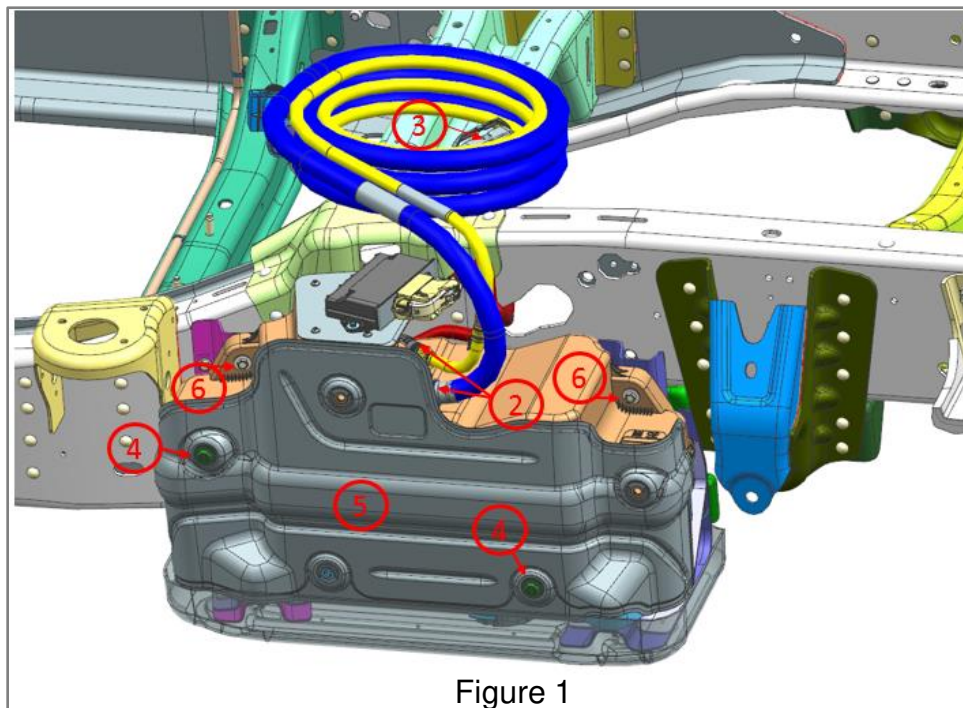


Figure 1

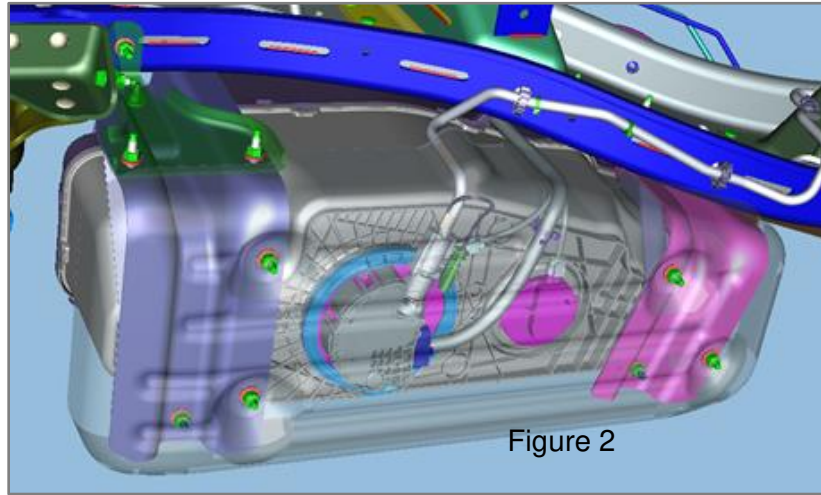
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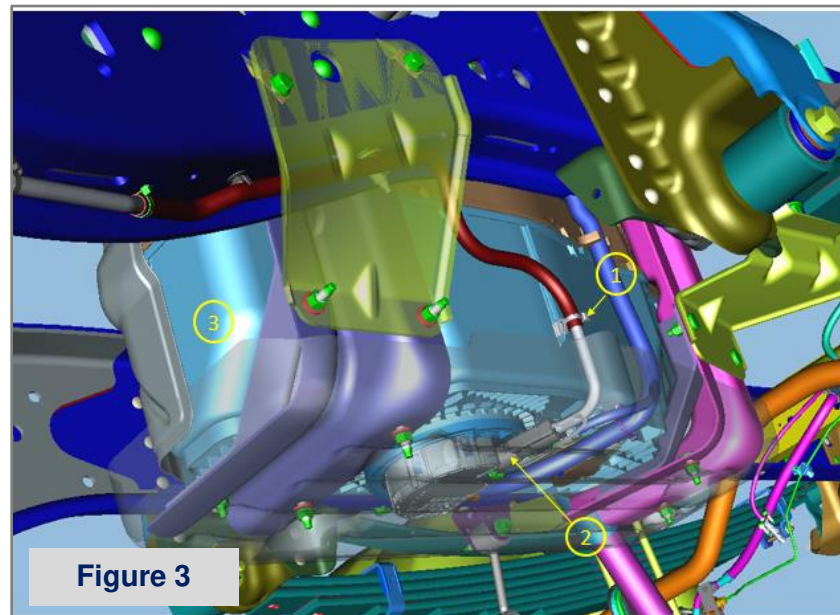


DEF Tank shown in the Factory built location (Figure 1)

1. Disconnect Fill and Vent line (Figure 1 - item 2)
2. Disconnect DEF Harness (Figure 1 - item 3)
3. Remove Retainers-Heat Shield (Figure 1 - item 4x2)
4. Remove Heat Shield (Figure 1 - item 5)
5. Remove DEF Tank fasteners (figure 1- item 6x4)



6. Tilt DEF Tank as shown above in figure 2



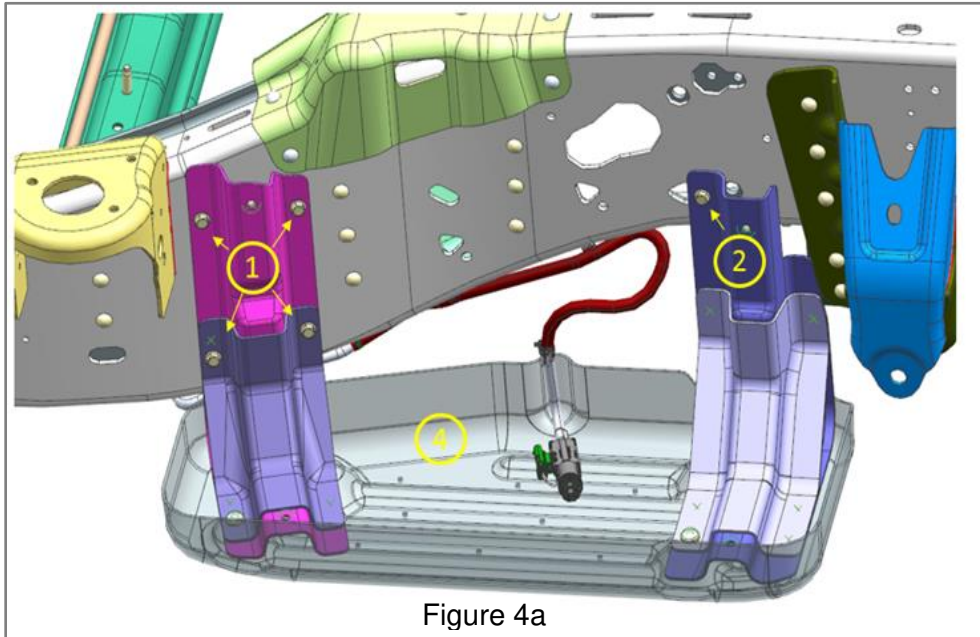
7. Disconnect edge clip from tank rib (Figure 3 – item 1)

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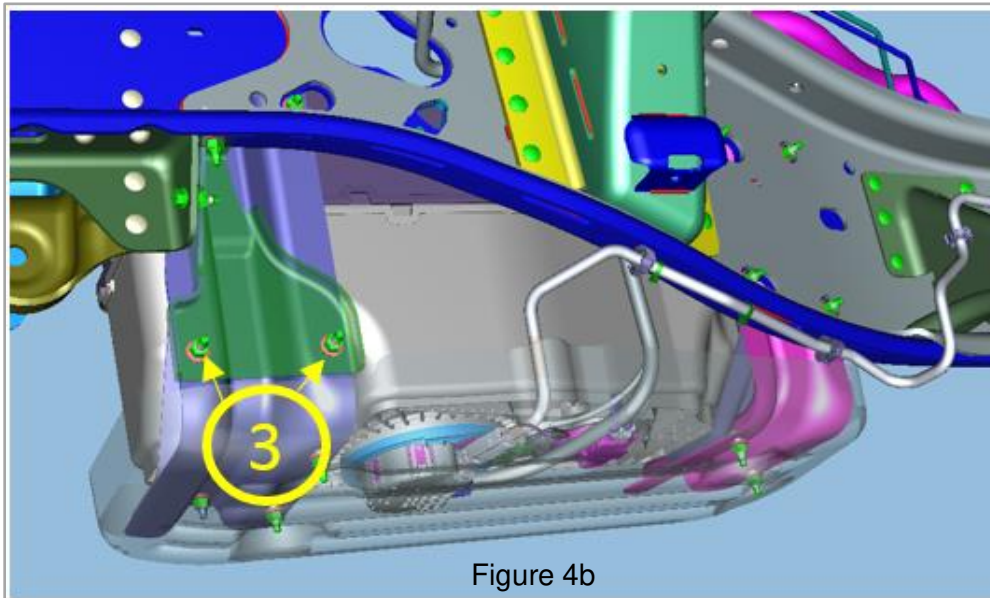
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8. Disconnect supply line from tank port (Figure 3 – item 2)
9. Remove tank



10. Remove fasteners from Front Main bracket (Figure 4a – item 1x4)
11. Remove fastener from Rear Main bracket (Figure 4a - item 2x1)



12. Remove hex nuts from supporting bracket (Figure 4b – item 3x2).
13. Remove Main Brackets-Shield sub-assembly (Figure 4a – item 4).
(Note: do not disassemble the “L” brackets and lower shield – retain as an assembly)

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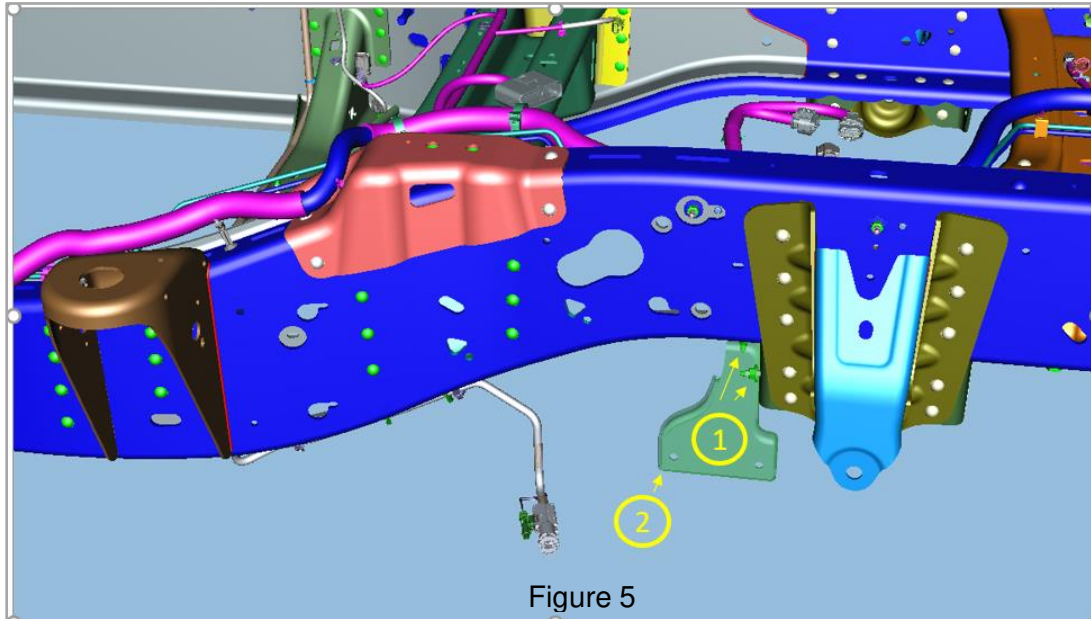


Figure 5

14. Remove fasteners from supporting bracket (Figure 5 – Item 1x2)
15. Remove Bracket (Figure 5 – Item 2)

Installation Procedure:

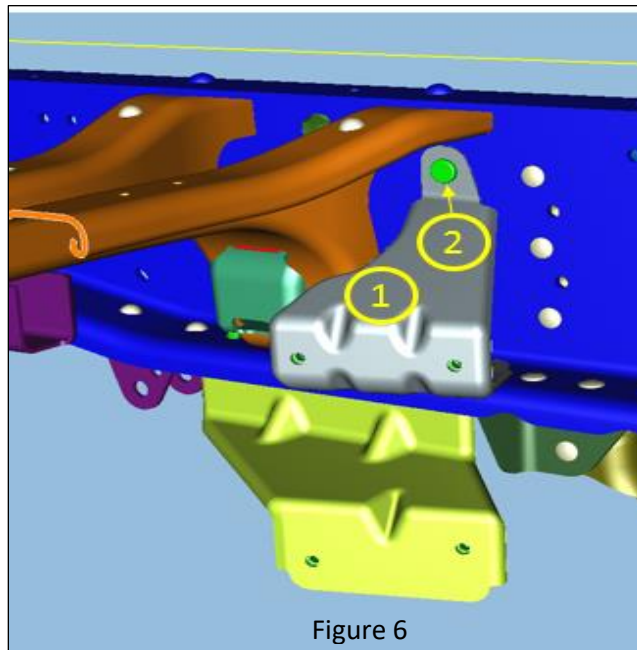
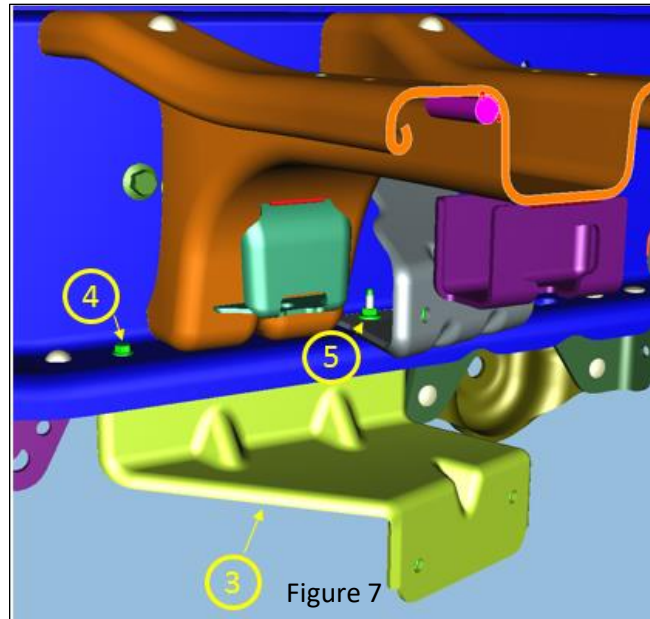
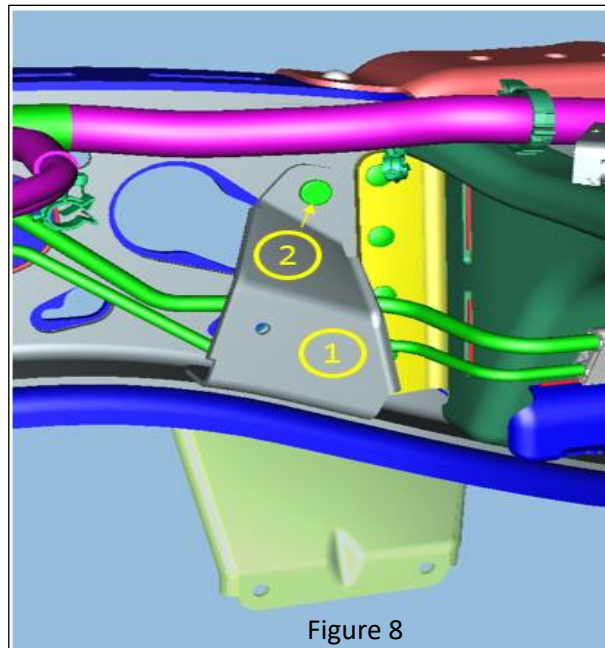


Figure 6

1. Mount top bracket (rear) refer to figure 6
2. Secure nut/fastener (x1)



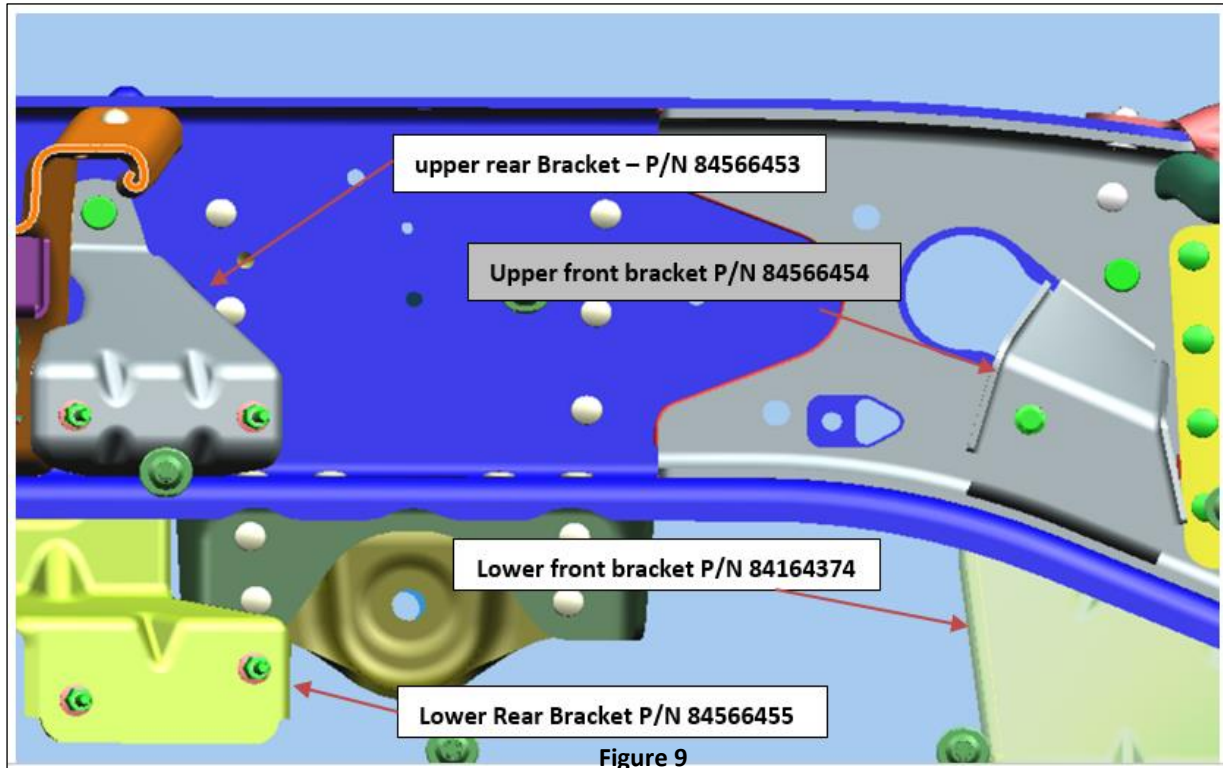
3. Mount bottom bracket (rear) refer to figure 7
4. Secure nut/fastener (x1)
5. Secure fastener (x1)



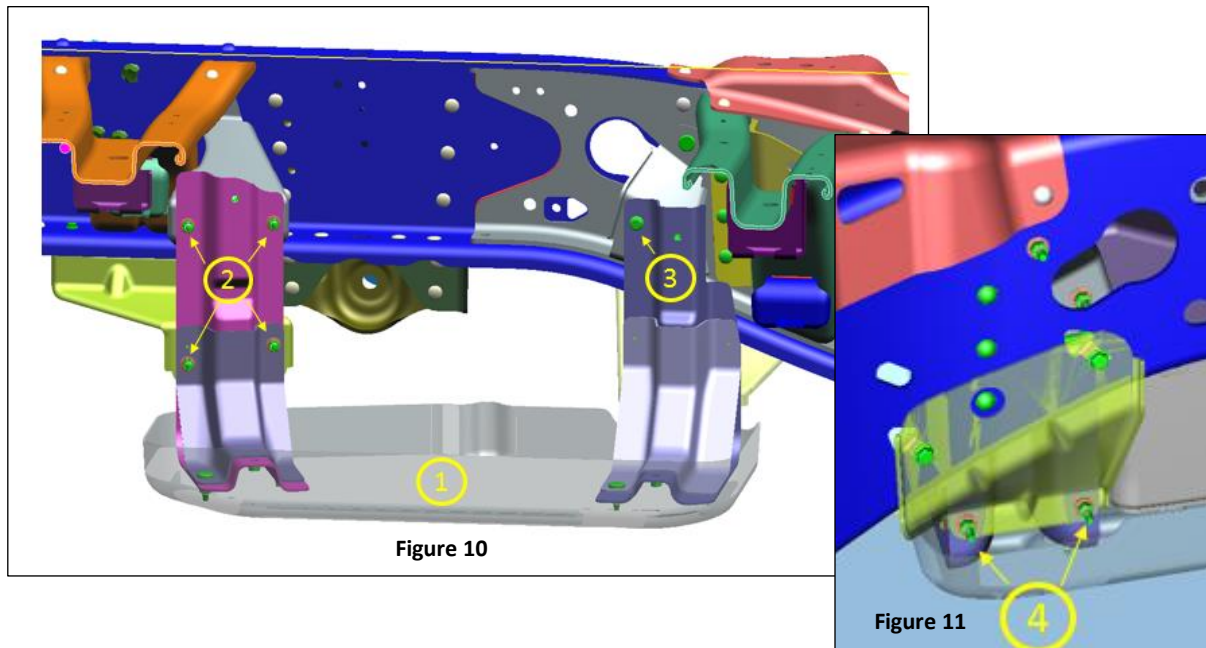
7. Mount bottom bracket (1) (rear) refer to figure 8
8. Secure fasteners (2) (x2)

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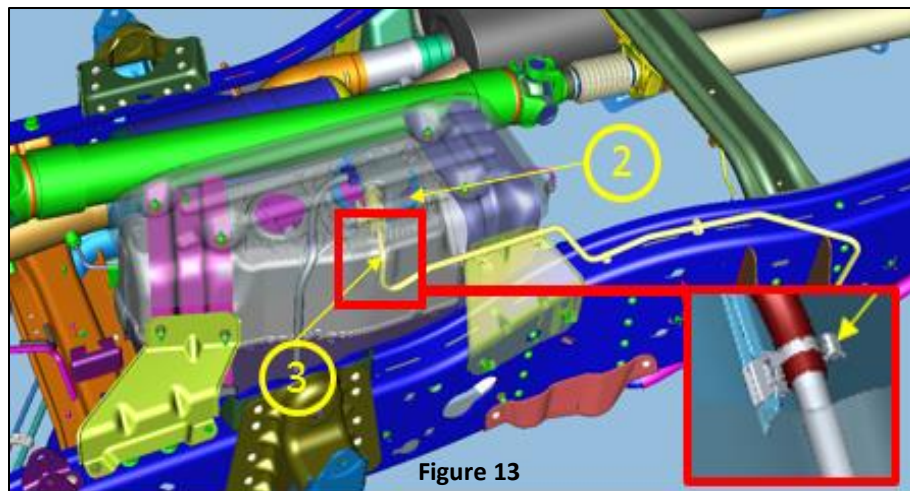
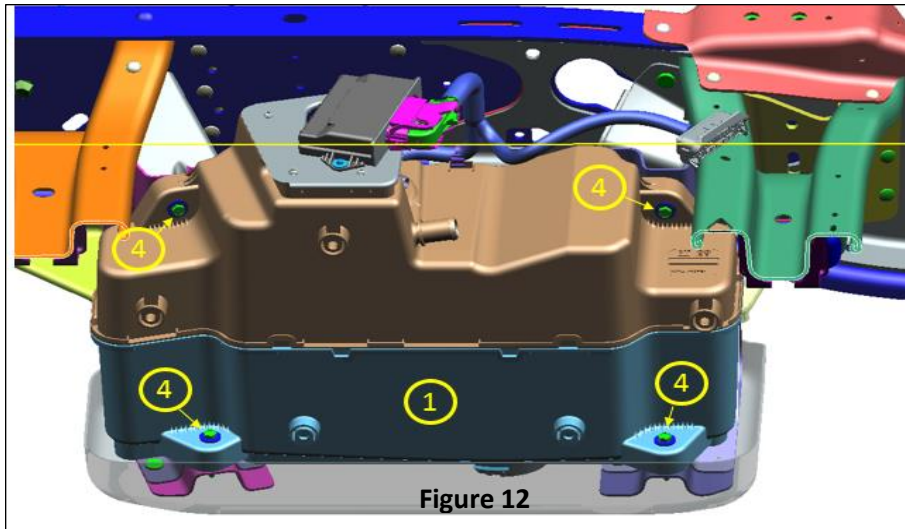


9. Refer to Figure 9 for inside frame view of brackets when installed

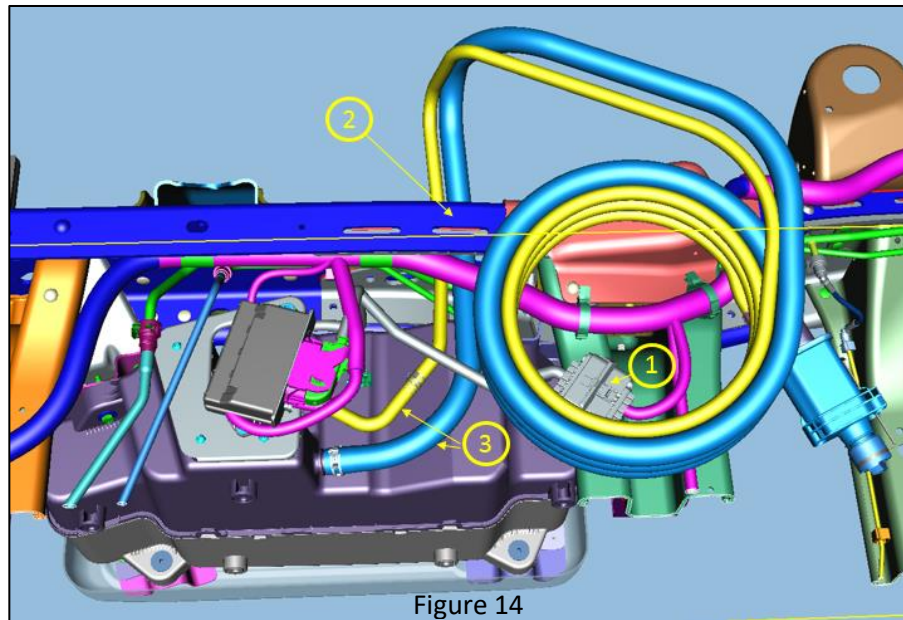




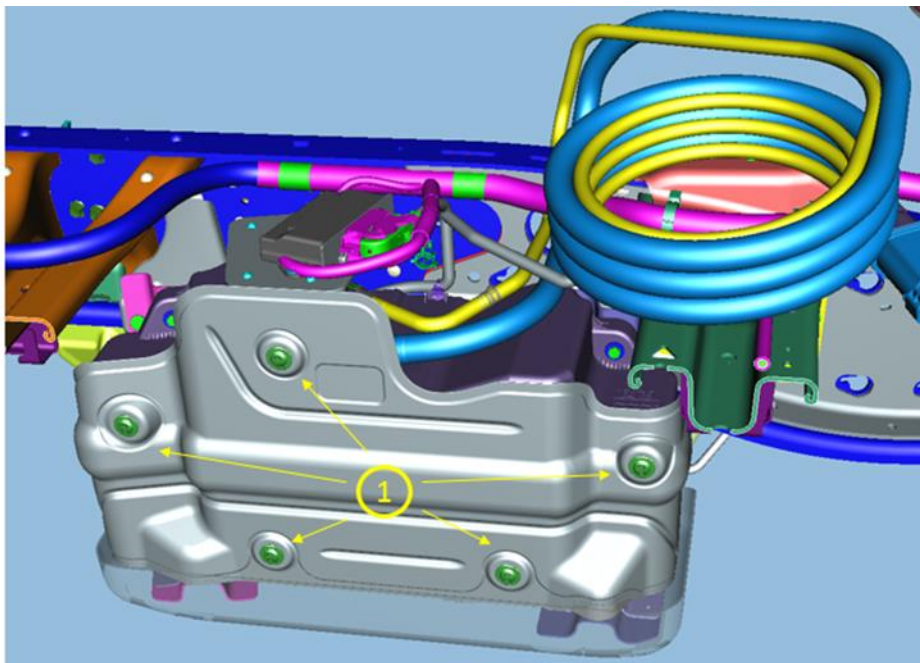
10. Mount Main Brackets-Shield sub-assembly (item 1/figure 10)
11. Secure hex nuts - Front Main bracket (x4) (item 2/figure 10)
12. Secure fastener - Rear Main bracket (x1) (item 3/figure 10)
13. Secure hex nuts – Front bracket (x2) (item 4/figure 11)



14. Place DEF Tank on brackets (item 1/figure 12).
- Tilt tank to:
15. Connect Supply Line to Pump (Item 2/figure 13)
 16. Reconnect Edge Clip to Tank Rib (item 3/figure 13)
 17. Install fasteners (item 4/figure 12) to secure DEF Tank (x4)



18. Inspect and clean as required the connector prior to reconnecting the DEF main harness (item 1/figure 14).
19. Route Fill and Vent lines through frame hole opening (item 2/figure 14)
20. Connect Fill and Vent lines to tank (item 3/figure 14)

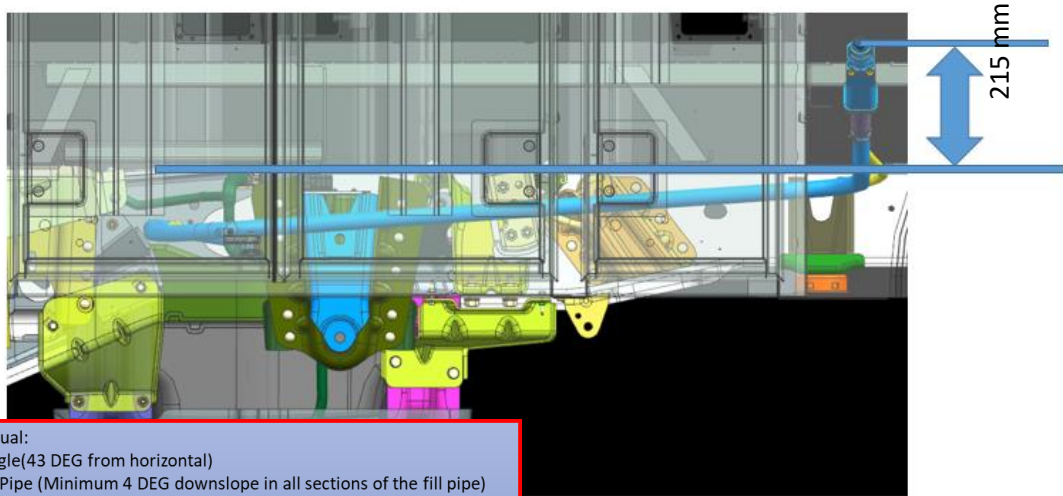


21. Install Heat Shield using Retainers (x5) (figure 15)



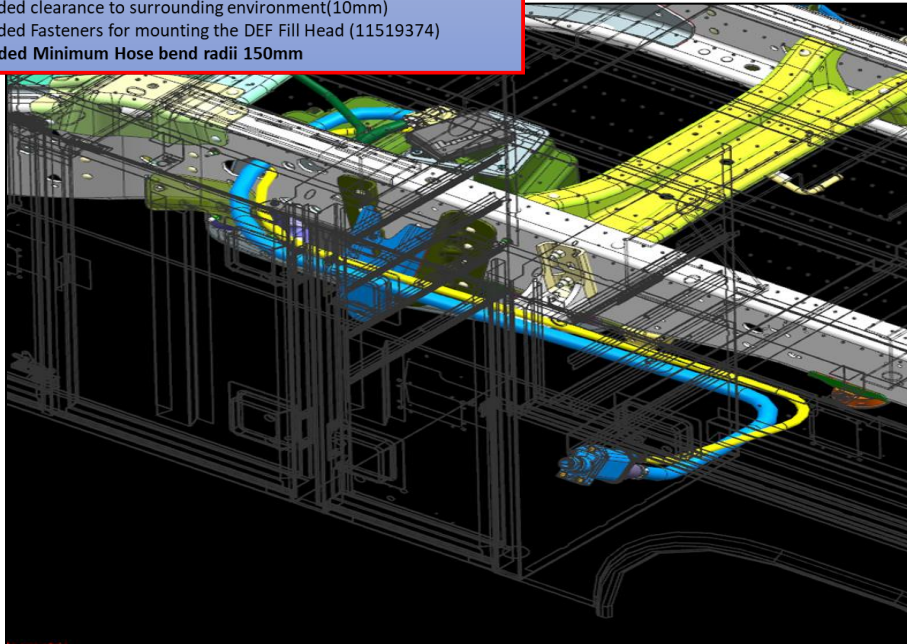
22. Following the installation of the service body the following information regarding locating the fill hose and head must be followed based on the desired location of the fill head.

Fill Head Mounting Location – Wheel Well Location



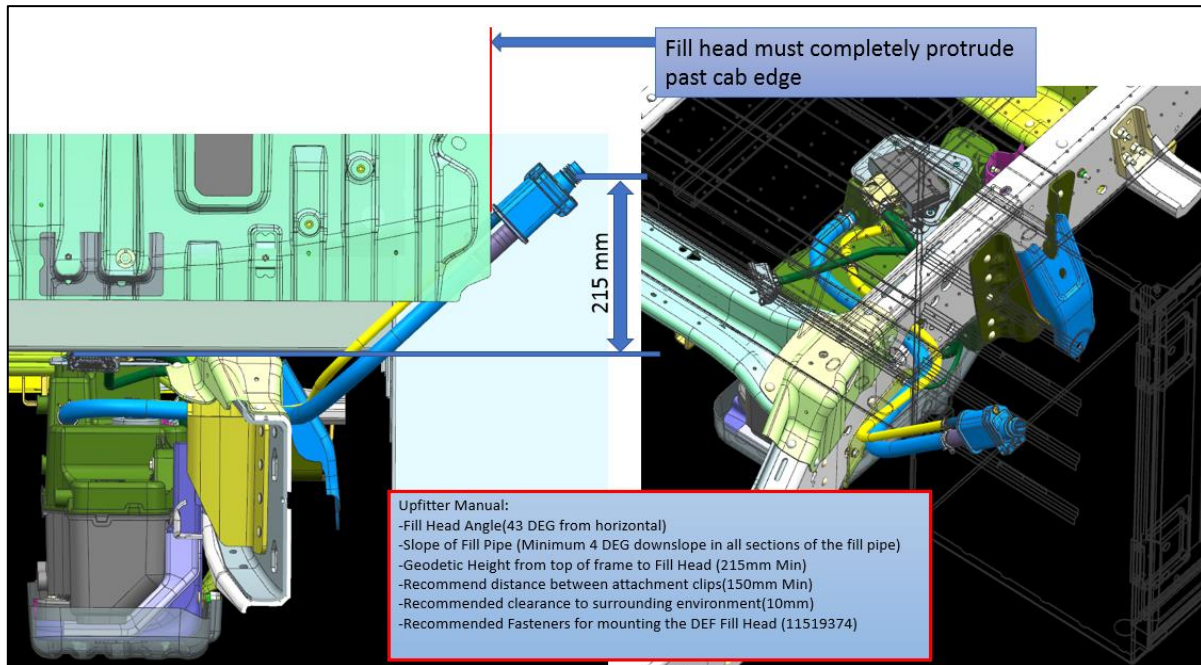
Upfitter Manual:

- Fill Head Angle(43 DEG from horizontal)
- Slope of Fill Pipe (Minimum 4 DEG downslope in all sections of the fill pipe)
- Geodetic Height from top of frame to Fill Head (215mm Min)
- Recommend distance between attachment clips(150mm Min)
- Recommended clearance to surrounding environment(10mm)
- Recommended Fasteners for mounting the DEF Fill Head (11519374)
- Recommended Minimum Hose bend radii 150mm



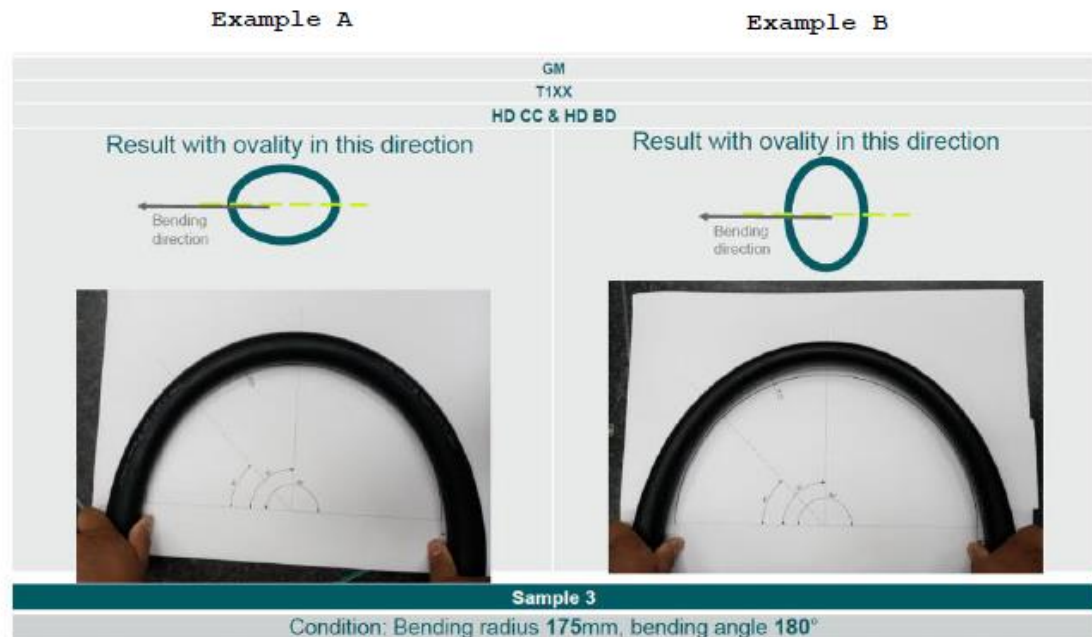


Alternate Fill Head Mounting Location – Between Cab and Service Body



Hose Bending note:

In order to prevent hose kinking, bend hose across the minor diameter as shown in example A; avoid bending hose across the major diameter as shown in example B, below.



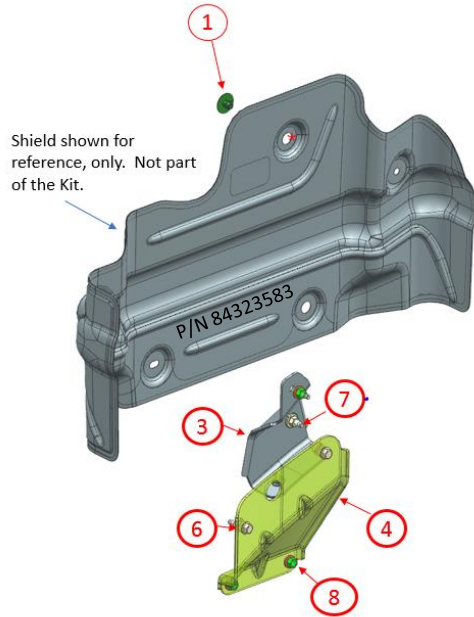
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Additional Information:

Kit Information (Service P/N: 84659197)



Kit Components	P/N
1. Retainers - HS (x5)	11611569
2. Bracket - Support	84566453
3. Bracket - Support	84566454
4. Bracket - Support	84164374
5. Bracket - Support	84566455
6. Push Nut (x2)	11603183
7. Bolt (x3)	11588724
8. Hex Nut (x8)	11546440
9. Stud - Supp. Brkt. (x3)	11588715
10. Nut (x1)	11546439

Service Part Numbers:

1. Supply Line Assembly (31403/31003) – 84590626
2. Supply Line Assembly (31043) – 84590627
3. Fill Pipe Assembly – 84605515
4. Fill Pipe Cap - 23138955

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